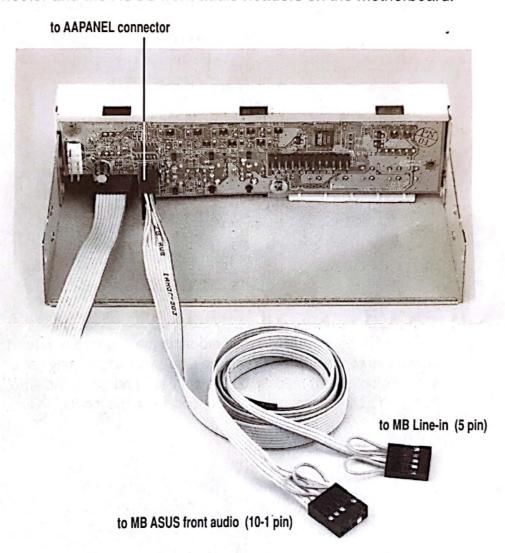
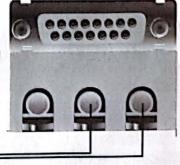
ISUS iPanel Deluxe

Cable Specification Updates

This insert updates the connector specifications for the iPanel Deluxe unit. In addition to the original specifications, the iPanel Deluxe is now provided with a new dual purpose *Line-in I front audio* cable to connect to the *line-in* connector and the *ASUS front audio* headers on the motherboard:



When using IPANEL Deluxe Line-in connection, take care to insert the two plastic plugs into the external Line-in jack (light blue color) and the Microphone jack (pink), both located on the main I/O panel of each motherboard.

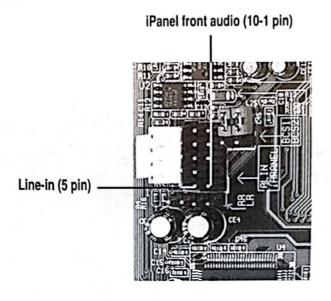


15-060134000

/ISUS iPanel Deluxe

Making Connections:

The *line-in* connector (LINE_IN or ALIN) and the ASUS *front audio* connector (IPANEL, IAPANEL or AAPANEL) are usually mounted next to each other. Locate the connectors and plug both ends of the *Line-in / front audio* cable to the motherboard.





NOTE! 1. Most new ASUS motherboards are supplied with an ASUS front audio connector. However, the Line-in connector may not be available on all new models. 2. The connector name for the ASUS front audio connectors may vary depending on the model.

For updated processor settings, visit the ASUS web site: www.asus.com.tw

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHE
DFOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME
WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUSTEK
COMPUTER INC. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS
OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL, INCLUDING THE PRODUCTS
AND SOFTWARE DESCRIBED IN IT.

Copyright © 2002 ASUSTeK COMPUTER INC. All Rights Reserved.

iPanel™ Family

Smart Information Panel User's Guide

A sinkuff a hoski kana Si Si ka

Manual Revision 1.01
Published September 2001

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of ASUSTEK COMPUTER INC. ("ASUS").

ASUS PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, IN-CLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ASUS, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

For previous or updated manuals, BIOS, drivers, or product release information, contact ASUS at http://www.asus.com.tw.

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY,
AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY

APPEAR IN THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT.

Copyright @ 2001 ASUSTEK COMPUTER INC. All Rights Reserved.

Introduction

The ASUS® iPanel™ Smart Information Panel adds flexibility to your computer by providing fast and easy access to I/O devices such as USB, Serial, Audio, and IrDA. The user-configurable hotkeys for quick access to your favorite computer applications adds to its versatility.

And to keep that high-power computer running at its peak while keeping maintenance cost to a minimum, the iPanel provides PC health monitoring at your fingertips by bringing you instant access to system status information as POST (Power-On Self Test) messages, CPU/system temperature, voltages, and fan rotation speeds – all at the touch of a button.

The iPanel fits snugly into a spare 5.25" drive bay in your computer and its specially developed software enables you to personalize the configurable hotkeys.

Efficient and user-friendly, the iPanel is the ultimate solution to easy connectivity and one touch PC management.

Product Specifications

Two iPanel models are available to suit your PC needs:

- iPanel Basic caters to mainstream users who want convenient access to the USB device and to daily computer operations as web browsing and email.
- iPanel Deluxe caters to more advanced users by providing additional access to audio and serial ports.

Features

- System Status Detection and Display
 - 1) Temperature: Allows efficient monitoring of system (CPU and motherboard) temperature to prevent system overheat and prolong PC performance.
 - 2) Voltage: Efficient monitoring of PC voltage (Vcore, +3.3V, +5V) ensures that power supply is within the optimal voltage range.
 - 3) Startup Diagnostics: Allows you to detect problems during the POST (Power-On Self Test) routines through the displayed diagnostic codes.

- 4) System Working Frequency: Displays the current FSB (or external), CPU Bus, and memory frequencies.
- 5) System Fan Rotation Display: Allows efficient monitoring of fan rotation speeds (measured in Rotations Per Minute or RPM) to determine the health status of the system fans for CPU, power supply, and chassis.
- User-configurable Hot Keys
- Front Panel Connectivity
 - 1) 2 USB Ports
 - 2) 1 Serial Port (Deluxe model only)
 - 3) 3 Audio Jacks (Deluxe model only) for Microphone , Line In, and Line Out
 - 4) 1 IrDA Module (Deluxe model only).

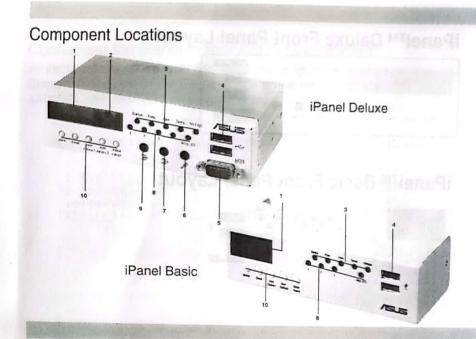
System Requirement

The iPanel may only be used with ASUS motherboards.

Components

6

miliator and to partaling	Location and the Location and the Location	n
Diagnostic Display	POST Diagnostic Display Area (see POST Code Descriptions on p. 21)	
System Status Display	LED Displays for System Status, Working Frequency, Fan Rotation, Temperature, and Voltage Secondary LED	. 8
System I/O	2 USB Port Connectors	. 4
Audio	Microphone Connector (Deluxe model only) Line In Connector (Deluxe model only) Line Out Connector (Deluxe model only)	7
Hot Keys	iPanel Hot Keys / Normal Hot Keys	10



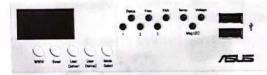
ASUS iPanel User's Guide

7

iPanel™ Deluxe Front Panel Layout

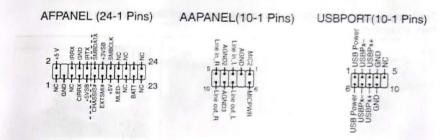


iPanel™ Basic Front Panel Layout



Connecting the iPanel to Your ASUS Motherboard

All the necessary components and cables are contained in your iPanel package. Connect the cables on the iPanel to their corresponding connector (AFPANEL, AAPANEL and USBPORT) on your motherboard.



iPanel™ Deluxe Cable Connection

The iPanel package comes with a set of cables which you can readily install in your iPanel unit, and a COM Port bracket for motherboards with no VGA connector:

AFPanel Cable

•COM Port Cable*

COM Port Bracket*

AAPanel Cable*

•USB Cable

The following table shows the various cables used in the iPanel and where to connect them accordingly.



AFPanel Cable

10

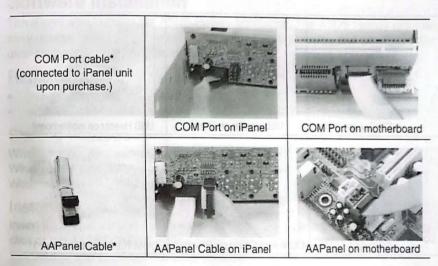


AFPanel Cable on iPanel



AFPanel on motherboard

The cables connect only in one specific orientation. Match the missing pin/s on the iPanel connector/s to the plugged hole on the respective cable/s.



*Used only for the iPanel Deluxe model.

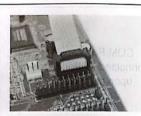
ASUS iPanel User's Guide



USB Cable



USB Header on iPanel



USB Header on motherboard



COM Port Cable* for motherboard with no VGA



COM Port Cable on Bracket*



COM Port on motherboard

*Used only for the iPanel Deluxe model.

Software Installation

The iPanel also features the ASUS Hotkey application. The ASUS Hotkey provides easy access to two popular computer functions: web browsing and email; and two user-configurable hot keys allows you to easily launch software applications.

Requirements

- Windows 98/2000/ME or later
- · ASUS motherboard with iPanel Support (e.g., ASUS CUSL2, TUSL2, etc.)

Starting Windows

When starting Windows for the first time after installing your motherboard, Windows will detect all Plug-and-Play devices. Follow the Add New Hardware Wizard to install all necessary device drivers.

Installing ASUS Hotkey

Insert the iPanel support disk that came with the iPanel into your drive and doubleclick or run A:\SETUP.EXE. Follow all the online prompts and/or onscreen instructions until you finish the setup process. Uninstalling

 Use Windows Add/Remove Programs utility to uninstall ASUS Hotkey. See the Windows Help application screen and/or related documentation for more information.

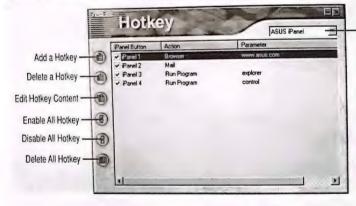
iPanel Update Timer [Disabled] in ASUS motherboard BIOS If you have installed the ASUS iPanel and wish to activate the hardware monitoring feature, [Enable] the parameter "I-Panel Update Timer" under the I/O Device Configuration in BIOS. This function allows the iPanel to update the system status indicator every five seconds. Configuration options: [Disabled] [Enabled]

iPanel Update Timer in BIOS

I/O Device Configuration		Item Specific Help
Onboard FDC Swap A & B	[No Swap]	<enter> to select if</enter>
Onboard Serial Port 1 Onboard Serial Port 2 UART2 Use Infrared	[3F8H/IRQ4] [2F8H/IRQ3] [Disabled]	switch drive letter assignments or not.
Onboard Parallel Port Parallel Port Mode ECP DMA Select I-Panel Update Timer	[378H/IR07] [ECP+EPP] [3] [Disabled]	
Onboard Peripheral Resource Control		
Onboard CIR I/O	[Disabled]	

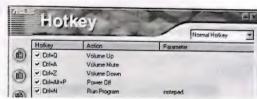
ASUS Hotkey

After installing ASUS Hotkey, you will find the hotkey icon on the taskbar status area. Clicking or right-clicking this icon launches the ASUS Hotkey application, which shows the menu to set up the different functions of your ASUS iPanel.



Drop-down menu box listing the default ASUS iPanel hot keys and user-configurable hot keys (Normal Hotkey, see opposite page for sample).

Normal Hotkey



Adding Hotkeys



To add a hotkey, click the **Add a Hotkey** button from the menu to bring up the Add Hotkey dialogue box. Place your cursor on the *Hotkey* box, and press the hotkey combination (use any of the CTRL+, ALT+ or SHIFT+ key combinations), plus any valid key (except ESC, ENTER, TAB, SPACEBAR, PRINTSCREEN, or BACKSPACE) of your choice. Click **Apply** to save the changes.

Select the desired *Hotkey Action*, and if necessary, the *Program Path* (click **Browse** to locate) to indicate the desired location on your drive.

Changing Hotkeys



From the menu, double-click the iPanel button or hotkey that you wish to change. Follow the procedure in adding hotkeys.

System Status Display Definitions

The iPanel defaults to POST diagnostics during startup. Pressing the **Mode** button on the front panel starts the other system status displays. The table on the next page lists and describes the System Status LEDs and Secondary LEDs. The POST Diagnostic Codes appear in the POST Diagnostic Display area (see *Components* on p.6 and *Codes Description* on p.21).

NOTE

The iPanel only displays a particular message if your system has the particular device connected to it (e.g., the power supply fan temperature is shown only if there is a sensor connected to the fan connector on your motherboard).

		SECONDARY LED	DESCRIPTION
SYSTEM STATUS LED		SECONDAIL 222	(see POST Diagnostic
1.	Startup Diagnostics:	alter podun anus i gerb Per produce de la produce Per produce de la prod	Code Descriptions on p.21)
2.	System Working Frequency:	2 3	CPU Frequency FSB Frequency Memory Frequency
3.	Freq System Fan Rotation Display: Fan	1 2 3	CPU Fan RPM Power Supply Fan RPM Chassis Fan RPM
4.	Temperature:	2 2 3	CPU Temperature Power Supply Temperature Chassis Fan Temperature
5.	Voltage:	1 2 3	CPU Core Voltage +3.3V +5V

POST	Diagnostic Code Descriptions	
01	Reserved	
02	Reserved	
03	Initialize EISA registers (EISA BIOS only)	
04	Reserved	
05	Keyboard controller self-tested	
06	Reserved	
07	Verify CMOS Read/Write	
09	ASUS-specific initialization; Configure Cyrix CPU register	
OA	Issue CPU ID instruction; Initialize the first 32 interrupt vector	ors, initialize
1.80	Int. 33 to 120, power management initialization	
0B	PnP initialization; verify the RTC time, detect had battery re	ead the
	CMOS data into the BIOS stack area, assign I/O and mem	ory for any
	PCI devices	1.0
OC .	Initialization of BIOS data area	
0D	Program some of chipset's value; Measure the CPU for display	ay, initialize
	the video	•

0E	Initialize APIC (multiprocessor BIOS only); Show startup screen	
_	message	
0F	DMA channel 0 tested	
10	DMA channel 1 tested	
11	DMA page registers tested	
12	Reserved	
13	Reserved	
14	Test 8254 0 counter 2	
15	Test 8259 interrupt mask bit for channel 1	
16	Test 8259 interrupt mask bit for channel 2	
17	Reserved Reserved Transport of the Control of the C	
19	Test 8259 functionality	16
1A	Reserved Annual Serve Mark 2019 and annualists 2040	
1B	Reserved	
1C	Reserved page 515 Stoles to notes 45464	
1D	Reserved program organistic scalar a rescription of organism of the profile	

1E 1F-29	If an EISA NVM Reserved	
30	Get size of base and extended memory	
31	Test base and extended memory, Test base memory from 256K to	
	640K, test extended memory above 1MB	
32	Test all onboard super I/O ports	
33	Reserved	
3A	Reserved	
3B	Reserved	
3C	Set flag to allow CMOS setup utility	
3D	Install PS/2 mouse	
3E	Try to turn on level 2	
3F		
40		
THE REAL PROPERTY.		
41	Initialize floppy drive controller	
42	Initialize hard drive controller	
43	Initialize serial & parallel ports (PnP BIOS only)	

45	Initialize math coprocessor
46-4D	Reserved
4E	Show all error messages on screen
4F 01	Ask for password, if needed
50	Write all CMOS values located in the BIOS stack back to CMOS
51	Reserved
52	Initialize all ISA ROM's; PCI initializations (PCI BIOS only), PnP initialization (PnP BIOS Only), setup shadow RAM, initialize power management
53	If not PnP BIOS, initialize ports; Initialize time in BIOS data area
54-5F	Reserved Sallom Sta 9 liptaril
60	Setup virus protection for the boot sector and and an an an analysis of the sector and an analys
61	Try to turn on level 2 cache
62	program numlock & typematic speed
63	Boot system via Int 19h
B0	Unexpected interrupt in protected mode a symbol and exception
	Initialize serial & parallet ports (PnP BIOS only)

B1	Unclaimed NMI occurred
BE	Program defaults into chipset
BF	Program remaining chipset values
CO	Init. all standard devices with defaults
C1	Auto detect on-board DRAM & cache
C3	Test first 26K DRAM
C5	Copy ROM BIOS to E000-FFFF
FF	System booting

24

ASUSTEK COMPUTER INC. (Asia-Pacific)

Marketing

150 Li-Te Road

Peitou, Taipei, Taiwan 112

Telephone: Fax:

Address:

+886-2-2894-3447 +886-2-2894-3449

Email:

info@asus.com.tw

Technical Support

MB/Others (Tel): Notebook (Tel):

+886-2-2890-7121 (English) +886-2-2890-7122 (English)

Desktop/Server (Tel):

Email: tsd@asus.com.tw

+886-2-2890-7123 (English)

Fax:

+886-2-2890-7698

Newsgroup:

cscnews.asus.com.tw WWW: www.asus.com.tw

FTP:

ftp.asus.com.tw/pub/ASUS

ASUS COMPUTER INTERNATIONAL (America)

Marketing

Address:

6737 Mowry Avenue

Mowry Business Center, Building 2

Newark, CA 94560, USA

Fax:

+1-510-608-4555

Email:

tmd1@asus.com

Technical Support

Fax: Email: +1-510-608-4555 tsd@asus.com

WWW:

www.asus.com

FTP:

ftp.asus.com/Pub/ASUS

ASUS COMPUTER GmbH (Europe)

Marketing

Harkortstr. 25

40880 Ratingen, BRD, Germany

Fax:

+49-2102-442066

Email:

Address:

sales@asuscom.de

(for marketing requests only)

Technical Support

Hotline:

MB/Others: +49-2102-9599-0

Notebook: +49-2102-9599-10

Fax:

+49-2102-9599-11

Support (Email): www.asuscom.de/de/support

WWW:

www.asuscom.de

FTP:

ftp.asuscom.de/pub/ASUSCOM

15-063183000